

INTELLIGENT IP RELAY

ABSTRACT OF THE DISCLOSURE

5 A proxy at the interface between a wireless communications system and a packet network intercepts all traffic between the wireless communications systems and the packet network and re-formats the intercepted traffic according to an optimal maximum transmission unit size between the interception point and the final destination, excluding the wireless link from computation of the optimal maximum transmission unit size. Typically this will result in packets from the wireless communications system being aggregated into a larger maximum transmission unit size, while packets from the packet network are fragmented into a smaller maximum transmission unit size. Congestion at intermediate nodes within the packet network is reduced, while end-to-end bandwidth utilization and latency at the final destination are improved.